



U.S. ENVIRONMENTAL PROTECTION AGENCY
 Office of Pesticide Programs
 Antimicrobials Division (7510P)
 1200 Pennsylvania Ave., N.W.
 Washington, D.C. 20460

EPA Reg. Number:

91282-2

Date of Issuance:

5/23/16

NOTICE OF PESTICIDE:

Registration
 Reregistration
 (under FIFRA, as amended)

Term of Issuance:

Conditional

Name of Pesticide Product:

loMax™ Recharge

Name and Address of Registrant (include ZIP Code):

Jeff Jones
 Delta Analytical Corporation
 Agent for Clarion Water, LLC
 12510 Prosperity Drive, Suite 160
 Silver Spring, MD 20904

Note: Changes in labeling differing in substance from that accepted in connection with this registration must be submitted to and accepted by the Antimicrobials Division prior to use of the label in commerce. In any correspondence on this product always refer to the above EPA registration number.

On the basis of information furnished by the registrant, the above named pesticide is hereby registered under the Federal Insecticide, Fungicide and Rodenticide Act.

Registration is in no way to be construed as an endorsement or recommendation of this product by the Agency. In order to protect health and the environment, the Administrator, on his motion, may at any time suspend or cancel the registration of a pesticide in accordance with the Act. The acceptance of any name in connection with the registration of a product under this Act is not to be construed as giving the registrant a right to exclusive use of the name or to its use if it has been covered by others.

This product is conditionally registered in accordance with FIFRA section 3(c)(7)(A). You must comply with the following conditions:

1. Submit and/or cite all data required for registration/reregistration/registration review of your product under FIFRA when the Agency requires all registrants of similar products to submit such data.

Signature of Approving Official:

Demson Fuller, Product Manager 32
 Regulatory Management Branch II
 Antimicrobials Division (7510P)
 Office of Pesticide Programs

Date:

5/23/16

2. The data requirements for storage stability and corrosion characteristics (Guidelines 830.6317 and 830.6320) are not satisfied. A one year study is required to satisfy these data requirements. You have 18 months from the date of registration to provide these data.
3. Make the following label changes before you release the product for shipment:
 - Revise the EPA Registration Number to read, "EPA Reg. No. 91282-2."
4. Submit one copy of the final printed label for the record before you release the product for shipment.

Should you wish to add/retain a reference to the company's website on your label, then please be aware that the website becomes labeling under the Federal Insecticide Fungicide and Rodenticide Act and is subject to review by the Agency. If the website is false or misleading, the product would be misbranded and unlawful to sell or distribute under FIFRA section 12(a)(1)(E). 40 CFR 156.10(a)(5) list examples of statements EPA may consider false or misleading. In addition, regardless of whether a website is referenced on your product's label, claims made on the website may not substantially differ from those claims approved through the registration process. Therefore, should the Agency find or if it is brought to our attention that a website contains false or misleading statements or claims substantially differing from the EPA approved registration, the website will be referred to the EPA's Office of Enforcement and Compliance.

If you fail to satisfy these data requirements, EPA will consider appropriate regulatory action including, among other things, cancellation under FIFRA section 6(e). Your release for shipment of the product constitutes acceptance of these conditions. A stamped copy of the label is enclosed for your records. Please also note that the record for this product currently contains the following CSFs:

- Basic CSF dated 3/10/2016

If you have any questions, please contact Srinivas Gowda by phone at 703-308-6354, or via email at gowda.srinivas@epa.gov.

Sincerely,



Demson Fuller, Product Manager 32
Regulatory Management Branch II
Antimicrobials Division (7510P)
Office of Pesticide Programs

Enclosure

IoMax™ Recharge

For Use in Sanitizing Poultry
Drinking Water

Hazards to Humans and Domestic Animals

DANGER. CORROSIVE. Crystal iodine causes irreversible eye damage and skin burns. May be fatal if swallowed or inhaled. Harmful if absorbed through the skin. Do not get in eyes, or on skin or on clothing. Do not breathe dust. When handling crystal iodine, wear protective eyewear (goggles, face shield or safety glasses) and protective clothing (coveralls worn over long-sleeved shirt and long pants, socks, chemical-resistant footwear, and gloves). Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco or using the toilet. Remove and wash contaminated clothing before reuse.

Environmental Hazards

Iodine in crystal form is toxic to fish. Do not discharge effluent containing this product into lakes, streams, ponds, estuaries, oceans or other waters unless in accordance with the requirements of a National Pollutant Discharge Elimination System (NPDES) permit and the permitting authority has been notified in writing prior to discharge. Do not discharge effluent containing this product to sewer systems without previously notifying the local sewage treatment plant authority. For Guidance contact your state water treatment Board or Regional Office of the EPA.

Physical and Chemical Hazards

Do not store or ship in the presence of ammonia. This product will form explosive nitrogen iodides when contacted with liquid ammonia, aqueous ammonia solutions such as household ammonia or alkaline solution of ammonium salts.

EPA Reg. No. 91282-
EPA Est. No. xxxxx-xx-xxx

Net Contents:

ACCEPTED
05/23/2016
Under the Federal Insecticide, Fungicide
and Rodenticide Act as amended, for the
pesticide registered under
EPA Reg. No. 91282-2

Directions for Use

It is a violation of Federal Law to use this product in a manner inconsistent with its labeling.

Install IoMax™ Recharge canister into iSAN™ System unit as explained in the iSAN™ System Manual. Adjustments can be made manually in the touch screen interface to achieve iodine concentrations from 6 to 16 parts per million.

IoMax™ Recharge canister may only be changed by certified Clarion technicians.

Storage and Disposal

Do not contaminate water, food or feed by storage or disposal. **Storage:** Keep IoMax™ Recharge canister tightly closed. Store in a dry place. Do not store in the presence of ammonia.

Pesticide Disposal: Pesticide wastes are acutely hazardous. Improper disposal of excess pesticide or rinsate is a violation of Federal Law. If these wastes cannot be disposed of by use according to label instructions, contact your state pesticide or environmental control agency, or the hazardous waste representative at the nearest EPA Regional Office for guidance.

Canister Handling: Refillable container. This container to be refilled with iodine only. Do not reuse this container for any other purpose. Clarion is responsible for cleaning the container before refilling and final disposal. Do not throw expended IoMax™ Recharge canisters in the trash. Contact your Clarion rep for collection and disposal.

ACTIVE INGREDIENT:
Iodine: 99.9%
OTHER INGREDIENTS: 0.1%
TOTAL: 100.0%

Keep Out of Reach of Children

DANGER

See Side Panel for Additional
Precautionary Statements

FIRST AID

If on Skin: Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice.

If in Eyes: Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control center or doctor for treatment advice.

If Inhaled: Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth if possible. Call a poison control center or doctor for further treatment advice.

If Swallowed: Call a poison control center or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by a poison control center or doctor. Do not give anything to an unconscious person.

Have the product container or label with you when calling a poison control center or doctor or going for treatment. You may contact poison control center at 1-800-222-1222 for emergency medical treatment information.

Note to Physician: Probable mucosal damage may contraindicate the use of gastric lavage.

Manufactured by:
Clarion Water Inc.
3530 W. Garry Ave.
Santa Ana, CA 92704
714 352-2300



iSAN™

Iodine Dosing Management System
from Clarion Water



Operating Instructions

Direct Injection System



3500 W. Garry Ave. Santa Ana CA 92704
Web: www.clarionwater.com

**For Service please call:
(1) 714.352.2300**

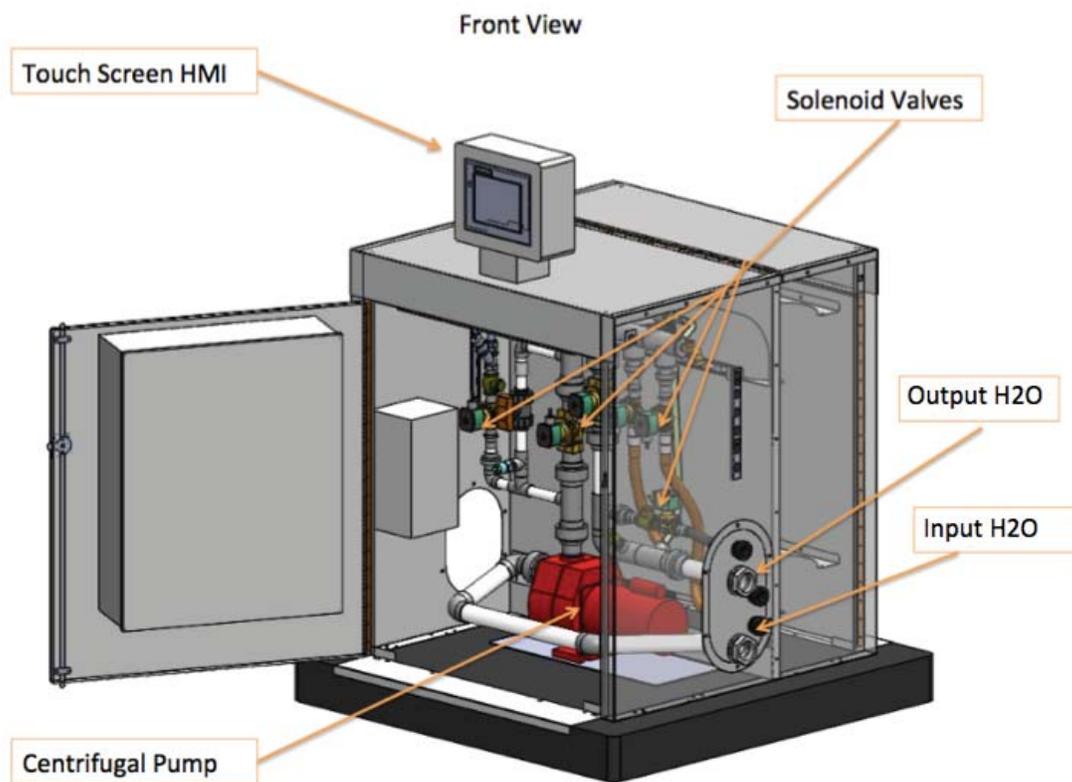
Release Level

Date	Issue	Application	Author	Approval	Description of Revision
30/09/05	2.0	Microsoft Word	B.T.	C.W.	New Manual layout
15/03/16	3.0	Microsoft Word	S.D	T.B	New System Schema

INTRODUCTION

Thank you for choosing the ISAN Direct Injection Management System. We know that you will be pleased with your purchase and have many years of reliable service from the system. To achieve the best from the system it is important that customers have a good understanding of all the features that the system offers. The standard features of the ISAN system are described in this document and if operators have any questions about the correct method of operation they must consult their authorized representative as required.

Features as Standard



Touch Screen HMI

The ISAN Direct Injection System instrumentation features the next generation of microprocessors which ensures a user-friendly approach to functions, which enables the operator to confidently go about their business without undue concerns about the day to day running of their ISAN System.

It is recommended that the electrodes are wiped at least twice weekly and preferably daily for optimum performance. (Refer Customer Maintenance Manual).

In the case where a filter is fitted it should be cleaned at the end of each day for best results.

Iodine Measuring and Dosing

Two **Ion Selective Electrodes (ISE)** are incorporated in the system and their function is to measure millivolts in the water line generated by the presence of iodine in the water. The instrument converts the millivolt reading into a ppm digital reading. The instrument is programmed to automatically compare the actual ppm in the water line against the set point entered by the operator and adjust as required.

As the water flow in the line increases or decreases and the iodine in the water line becomes high or is depleted due to iodine coming in contact with dirt and organic matter the electrodes record a drop or rise in millivolts and the instrumentation responds accordingly by adjusting the valve to dose iodine (or reduce dosing) into the line until the desired level has been reached to coincide with the set point.

Iodine does not react with organic matter in the same way as other biocides and as such the reading at the instrument is usually similar to the reading further down the line.

Display Set Points ppm vs Actual ppm

A feature of the ISAN system is that it has a very user friendly, simple operating system. The digital display on the control panel displays a set point (required iodine level) and actual level. The operator simply presses an “**up or down**” button located on the instrument panel (after entering password – see relevant section) to set the desired iodine ppm level.

Iodine Canister Level Controls

The iSAN system actively measures iodine supply. When the cartridge has only 5% remaining, the instrument displays “Canister Empty” message. It is recommended that when canister level reaches 30% Clarion will contact you to schedule cartridge replacement by an Authorized Clarion Service Technician.

Fail Safe Mechanisms

The iodine system uses the highest quality components with fail safe mechanisms incorporated in the design.

- High iodine alarm warns operator of high iodine overdosing situation.
- Low iodine alarm warns operator of a low iodine situation.
- The ISAN system has the ability to interface with other equipment for complete automation of facility.

- Standard inbuilt modem for customer assistance or unit service as required.

All alarms feature digital display, audio signal and the ability to operate a self powered alarm flashing strobe light if required.

OPTIONS

PC System Interface.

This PC system interface is optional on all ISAN Systems and provides the highest level of operational sophistication available in a disinfection system. This feature enables an operator to fully interact, and operate the iodine dosing system in the same manner as if present at the instrument itself.

The system also has the ability to further interface with any Windows based PLC controller to further customize or automate the dosing process.

The PC interface also enables operator to data log their dosing and if necessary prepare a Q/A certificate for their customers. It also enables additional tasks to be undertaken as follows:

- Open full mimic instrument panel remotely (e.g. at the office).
- Investigate current remote operation.
- Alter all settings as required.
- Check iodine canister levels.
- Check iodine levels in the main line.
- Check past performance through integral data logger software.
- Conduct system audit via data logger information.
- Check correct valve/pump/pressure operation.
- A comprehensive diagnostics program is incorporated within the Clarion Water software for use by Clarion Water staff.

Modem - Dial in Option.

This standard feature enables an operator or Clarion Water staff to interact fully with the ISAN system anywhere in the country. The system dosing requirements can still be managed from remote locations.

All the normal above software is featured and operator can fully manage the system remotely as with the standard hard wiring.

Q/A Certificate.

The easy to follow ISAN system software enables an operator to print out a Q/A certificate with actual dosing levels data attachment, showing all the disinfection ppm levels for a given period. Graph print out is also available.

This certificate may accompany the goods to final destination.

Custom Designed Interface.

Total ISAN “smart” software operational interface is available.

In larger facilities the ISAN system can interface with other computer controlled equipment and interface with PLC controllers automatically. The Isan system will shut down solenoid valves or pumps when iodine levels are too high or too low and may take evasive action automatically as required as it has temperature and pressure sensors built into as standard.

The ISAN instrumentation and software can control additional solenoid valves to disinfect other areas of facility on a timed basis.

IoMax Recharge IODINE CRYSTALS

The IoMax Recharge (patented) 99.9% pure iodine crystals have been specifically manufactured by Clarion Water. Limited to operate in the ISAN system.

Iodine crystals from other sources have vastly different characteristics and are not suitable for use in the system.

If iodine crystals from another source are used the ISAN system will fail to operate correctly.

The use of other forms of iodine crystals also constitutes a breach of license agreement, warranty and service agreement as they could seriously damage the ISAN system and electrodes.

Iodine crystals from other sources may not be registered with the Statutory Authorities and consequently illegal to use with this system.

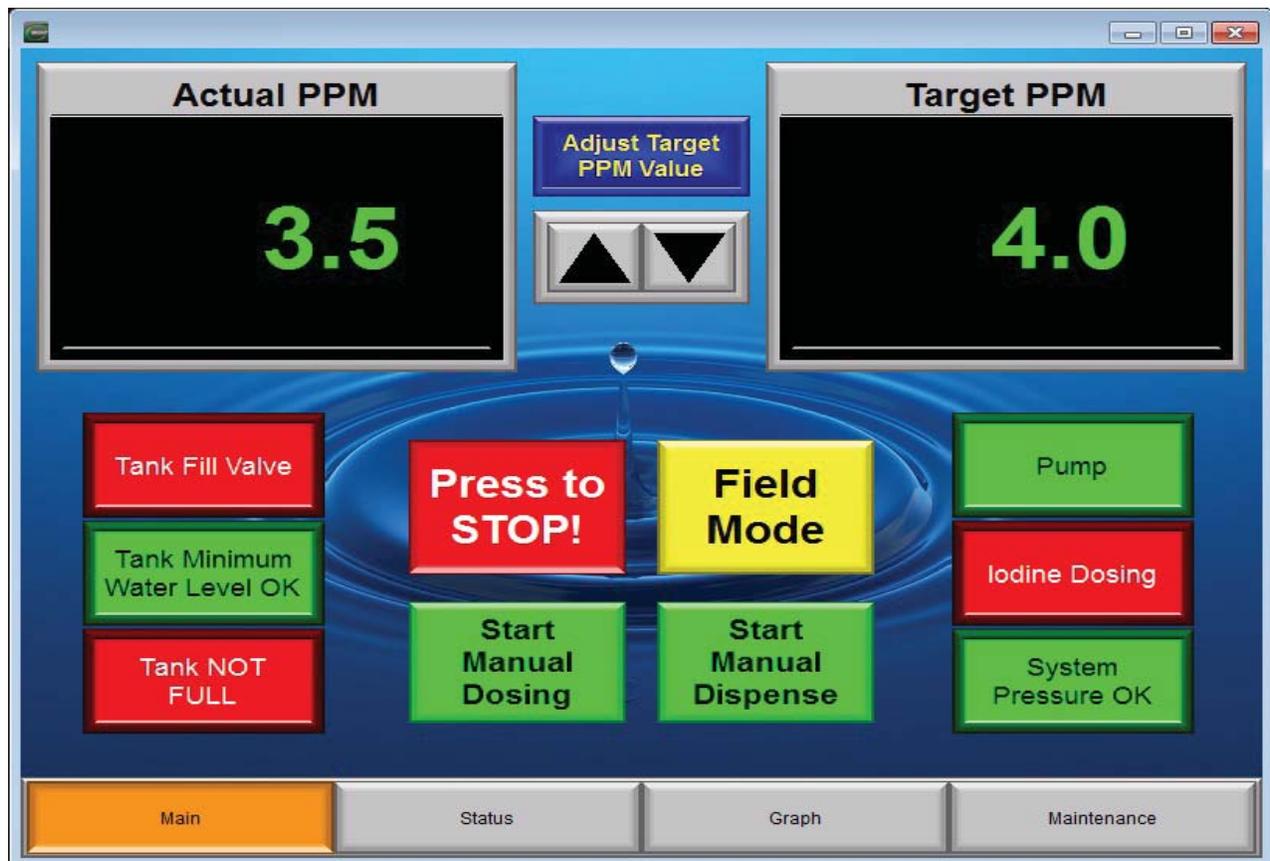
The Material Safety Data Sheet contained in this document must be observed at all time by operators when running the ISAN system or when your authorized agent handles IoMax Recharge iodine crystals cartridges or open iodine canisters.

The ISAN system is a precision piece of equipment, which must be regularly serviced in accordance with the Clarion Water. Limited. authorized service manual.

Only Clarion Authorized Service Technicians are permitted to install and service the ISAN system. A service cycle time is negotiated with your authorized representative at the time of purchase. The servicing of the ISAN system must be carried out with due care and diligence as certain aspects to the procedure can be hazardous and cause serious injury.

Your authorized service representative staff must to always wear the relevant personal protective equipment as outlined in the MSDS. It is recommended that the ISAN area be kept well ventilated at all times.

INSTRUMENT OPERATIONS AND COMMANDS



ADJUST TARGET PPM

Target PPM can be adjusted by pressing up or down on the arrows. A Clarion Authorized Service Technician will provide the recommended PPM based upon water quality samples and trials performed at time of system commissioning.

FIELD MODE

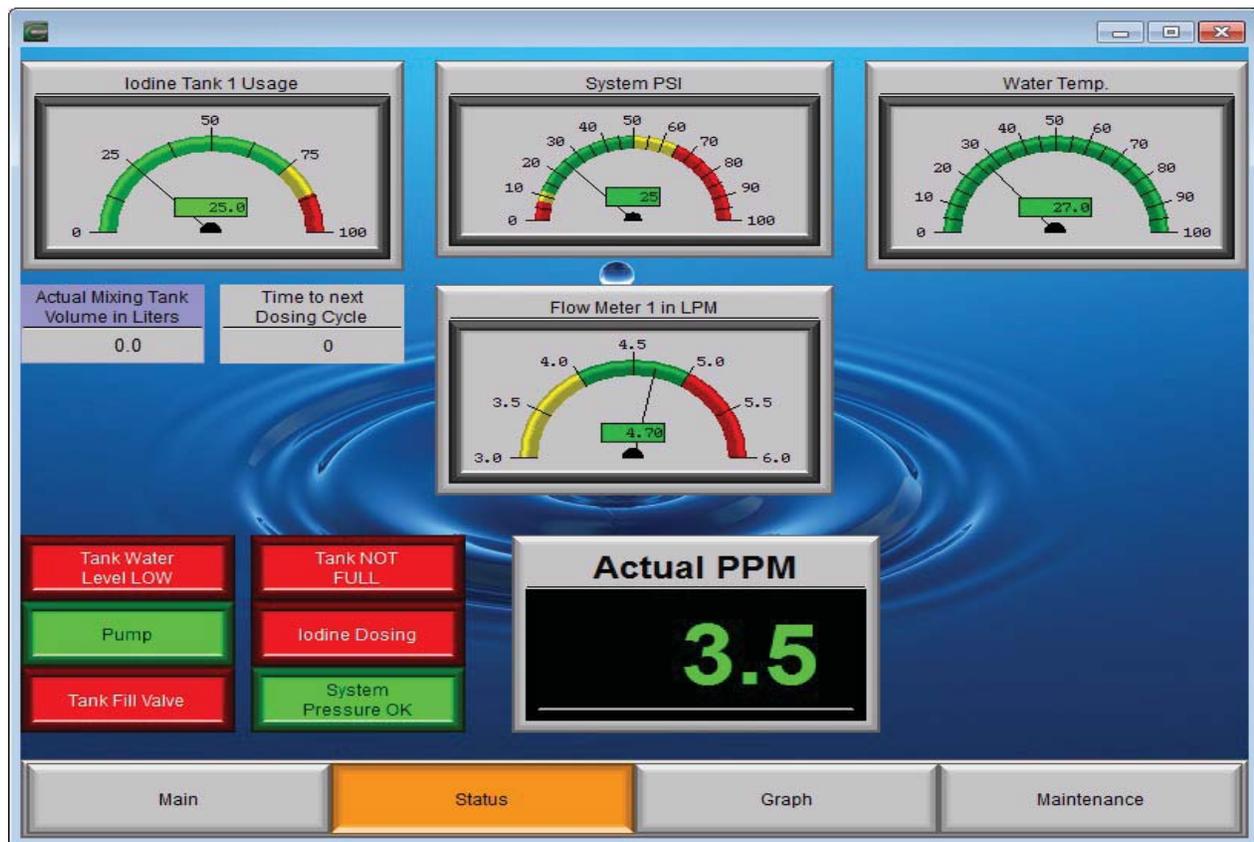
Field Mode allows for “set and forget” operation. It must be configured by a Clarion Authorized Service Technician

STOP

“Press to STOP” button ceases all dosing and dispensing immediately.

START MANUAL DOSING & DISPENSING

Manual Dosing allows the user to fill to and dispense from a tank rather than directly injecting into a water piping. A Clarion Authorized Service Technician will configure these options as required.



DIAGNOSTICS

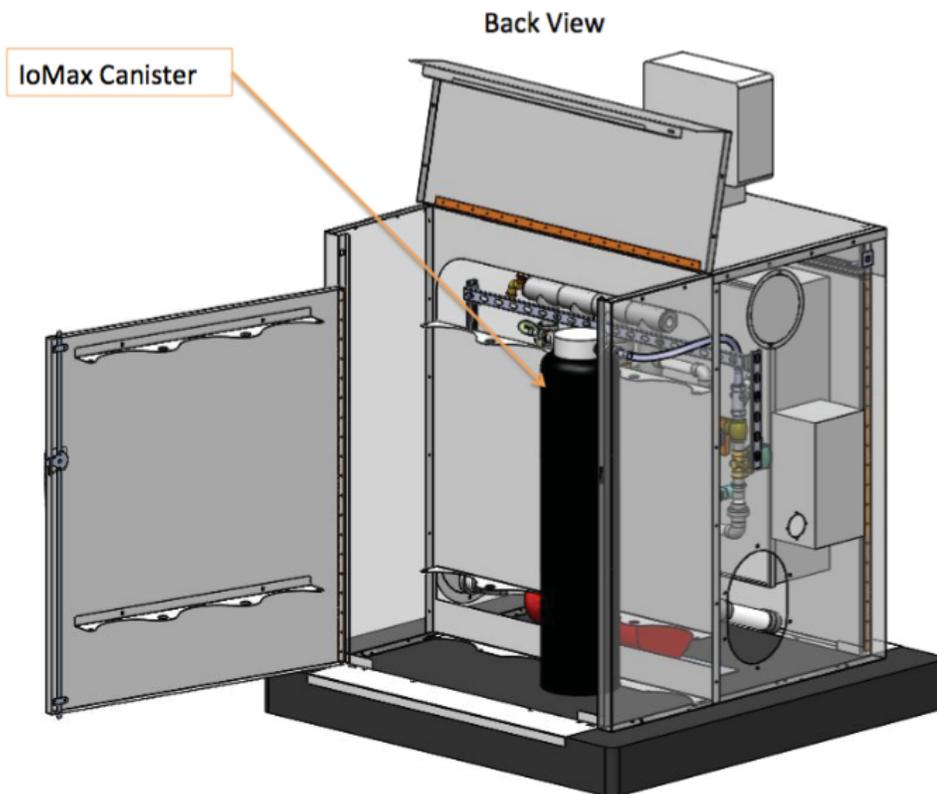
The iSAN controls system monitors the status of all critical system components and will report the status as Green or Red for the following:

- Tank Fill Valve – Green means tank fill valve is open.

- Tank Water Level Minimum – Green means tank is filled to above minimum level for dosing.
- Tank Full – Green means tank is full.
- Pump – Green means pump is operational.
- Iodine Dosing – Green means the system is currently dosing Iodine.
- System Pressure - Green means system pressure is within upper and lower limits.

The iSAN controls system also provides real time monitoring on Iodine supply, pressure, water temperature and flow, which can be viewed on the status screen, shown above.

CANISTER REPLACEMENT



The IoMax Recharge canister is stored in a locked cabinet on the back of the iSAN System and can only be accessed by an Authorized Clarion Service Technician. Call (1) 714.352.2300 to schedule a service visit.